PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REP

	Rec'd	Rec'd PCT/PTO 18 JAN 2005		
Anslation PA	7-1-69 TENT COOPERATION PCT	ON TREAT		
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INTERNATIO				
	(PCT Article 36 and			
Applicant's or agent's file reference P29955-P0	FOR FURTHER ACTION	Examination F	nofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/n 27 January 2003 (27		Priority date (day/month/year) 30 January 2002 (30.01.02)	
PCT/JP03/00752 International Patent Classification (IPC) or n				
H04R 17/00				
Applicant MATSU	SHITA ELECTRIC IND	USTRIAL C	O., LTD.	
amended and are the basis 70.16 and Section 607 of the		s of the descripting rectifice ander the PCT).	ion, claims and/or drawings which have bations made before this Authority (see I	
3. This report contains indications a				
Priority			tin dustrial applicability	
III Non-establishme	ent of opinion with regard to no	velty, inventive	step and industrial applicability	
IV Lack of unity of	invention	aged to novelty.	inventive step or industrial applicability;	
v Reasoned staten citations and ex	nent under Article 35(2) with replanations supporting such state	ement		
VI Certain docume				
	Certain defects in the international application			
VIII Certain observa	ations on the international appli	cation		
	1	Date of complet	ion of this report	
Date of submission of the demand 13 June 2003 (1)	3.06.03)	C	1 October 2003 (01.10.2003)	
Name and mailing address of the IPE.	A/IP	Authorized office	cer	
Facsimile No.		Telephone No.		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/00752

I. Basis	of the re	enorf		
<u> </u>		o the elements of the international application:*		
		ernational application as originally filed		
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2	pages	1.00		
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T be	his repor	t has been established as if (some of) the amendments had e disclosure as filed, as indicated in the Supplemental Box (I	not been made, sinc	e they have been considered to go
Replace in this a and 70.1	ment she report as 17).	sets which have been furnished to the receiving Office in res s "originally filed" and are not annexed to this report sheet containing such amendments must be referred to unde	sponse to an invitation since they do not	on under Article 14 are referred to contain amendments (Rule 70.16
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International application No. PCT/JP 03/00752

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	2, 5	YES		
		Claims		NO		
	Inventive step (IS)	Claims	2, 5	YES		
		Claims		NO		
	Industrial applicability (IA)	Claims	2, 5	YES		
		Claims		NO		

Citations and explanations

Claim 2

The invention set forth in claim 2 involves an inventive step with respect to the documents cited in the international search report. Document 1 does not disclose the feature such that "the diameter of the piezoelectric ceramic is approximately the same as the diameter of the dome part." Furthermore, this feature is not easily derivable, even for a person skilled in the art, from "affix a supplementary oscillator 2 to a piezoelectric body 1."

Claim 5

The invention set forth in claim 5 involves an inventive step with respect to the documents cited in the international search report. Document 1 does not disclose the feature such that "the primary upper resonance frequency of the dome-shaped oscillating plate is made to be higher than the secondary upper resonance frequency of the piezoelectric ceramic oscillator." Furthermore, this feature is not easily derivable, even for a person skilled in the art, from "directly driving the spherical (dome-shaped) oscillating plate by adhering or fitting a spherical oscillating plate 3 comprising a metal, resin, or fabric, to the piezoelectric oscillator comprising a

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supplementary oscillating body 2 and a piezoelectric body 1, outside the nodal circle of the oscillating state at the basic resonance frequency of said piezoelectric oscillator, thereby utilizing its bending mode."